

HT-S5400 7.1-CHANNEL HOME THEATER RECEIVER/SPEAKER PACKAGE



























Fully Immersive 7.1-Channel Home Theater on a Budget

Step up to 7.1-channel home entertainment with the Onkyo stamp of quality. The HT-S5400 gives you the flexibility to harness the two extra front-height channels of Dolby® Pro Logic® IIz. Now movies, games, and music come alive with atmosphere and realism. When it comes to set-up, Audyssey 2EQ® ensures the surround soundstage is adjusted to the proportions of your living room. And thanks to the system's HDMI® functionality, you can take advantage of Onkyo's convenient overlaid on-screen display to adjust settings with a minimum of fuss. Naturally, the receiver's four HDMI inputs also handle 3D video and high-def audio from Dolby® TrueHD and DTS-HD Master Audio™. Other connectivity highlights include a handy front-panel USB input that lets you send a clean digital signal from your iPod/iPhone to the receiver, and front-panel analog A/V inputs for easy connection of a game console or camcorder. To provide greater bass impact without taxing the receiver, the package includes an independently powered subwoofer.

HT-R590

- 7.1-Channel Home Theater Receiver
- 160 W/Ch at 6 Ω , I kHz, I Channel Driven, JEITA
- HDMI® Support for 3D, Audio Return Channel, Deep Color™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- · 4 HDMI Inputs and I Output
- Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
- Dolby® TrueHD, DTS-HD Master Audio™, Dolby® Digital Plus, DTS-HD High-Resolution Audio
- Dolby® Pro Logic® IIz for New Surround Channels • TI Burr-Brown 192 kHz/24-Bit DACs (PCM1690)
- for All Channels • PLL (Phase Locked Loop) Jitter-Cleaning Circuit
- Technology for S/PDIF Audio \bullet Audyssey 2EQ $^{\hspace{-0.05cm}0}$ for Room Acoustic Correction
- · Audyssey Dynamic EQ® for Loudness Correction
- Audyssey Dynamic Volume® to Maintain Optimal Listening Level and Dynamic Range
- Overlaid On-Screen Display (OSD) via HDMI
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Optimum Gain Volume Circuitry
- · Advanced 32-Bit Processing DSP Chip
- 4 DSP Modes for Gaming: Rock, Sports, Action,
- EX.Bass for Deeper, More Dynamic Bass

- Advanced Music Optimizer for Compressed Digital Music Files
- Theater-Dimensional Virtual Surround Function
- CinemaEIITER
- Direct Mode
- Double Bass Function
- Non-Scaling Configuration
- A-Form Listening Mode Memory
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and I Output)
- 5 Composite Video Inputs (I Front/4 Rear) and
- 4 Digital Audio Inputs (2 Optical and 2 Coaxial) • 6 Analog Audio Inputs (I Front/5 Rear) and I Output
- Subwoofer Pre Out
- Color-Coded, Banana Plug-Compatible Speaker Posts
- Headphone Jack
- Crossover Adjustment (40/50/60/70/80/90/100/120/ 150/200 Hz)
- A/V Sync Control (Up to 400 ms at 48 kHz)
- Tone Control (Bass/Treble) for Front L/R Channels
- 3-Mode Display Dimmer (Normal/Dim/Dimmer) • 40 FM/AM Random Presets
- RIHD (Remote Interactive over HDMI) for System Control
- Compatible with RI (Remote Interactive) Dock for iPod/iPhone
- Full-Function RI Remote Control

7.1-Channel Home Theater Speaker System

- SKF-590 2-Way Bass Reflex Front Speakers
- 12 cm OMF Diaphragm Woofer • 2.5 cm Balanced-Dome Tweeter
- Max. Input Power: I30 W
- Gloss Finished Top Panel
- · Magnetically Shielded
- SKC-590 2-Way Bass Reflex Center Speaker
- 8 cm Cone Woofer x 2
- 2.5 cm Balanced-Dome Tweeter
- Max. Input Power: I30 W
- Gloss Finished Side Panels • Magnetically Shielded
- SKR-590/SKB-590 Full-Range Acoustic Suspension Surround/Surround Back Speakers
- 8 cm Cone
- Max. Input Power: I30 W

Note: All speakers feature an impedance of δ Ω , color-coded speaker terminals and cable, and wall-mounting capability.

SKW-580 Bass Reflex Powered Subwoofer

- 25 cm Cone Rated Output Power: I20 W
- Down-Firing
- Output Level Control



HDMI® Support for 3D Video and Audio Return Channel

The four HDMI inputs on the HT-S5400's A/V receiver let you simultaneously connect high-def sources such as a Blu-ray player, a gaming console, and a cable/satellite tuner. A single output then sends a pristine signal to your connected high-resolution display. The HDMI implementation on this receiver supports both 3D video and an Audio Return Channel. 3D video brings exciting possibilities to home entertainment, with movie, game, and broadcast content on the increase and 3D-compatible TVs now on the market. This system also offers the convenience of an Audio Return Channel via HDMI. Audio content received directly by your HDTV's tuner can be sent "upstream" to your A/V receiver, without the need for a separate S/PDIF audio cable.

Direct Digital Connection of iPod/iPhone via Front-Panel USB Port

The HT-S5400's A/V receiver's front-panel USB port lets you access MP3, WMA, AAC, and FLAC audio files stored on a USB flash drive or iPod/iPhone. As the audio signals are transported in digital form, rather than analog, there is much less chance for signal degradation. End result: your music sounds cleaner and more faithful to the original. A further benefit of the USB input is that it lets you use the system's remote controller to play back audio files on the connected device.

Dolby® Pro Logic® IIz Adds New Dimensions to Surround Sound

On the HT-S5400's A/V receiver, Dolby Pro Logic IIz enables you to incorporate two "front high" speakers into your surround-sound set-up as an alternative to the two surround back speakers. The front high channels carry ambient, non-directional audio that helps immerse you even more deeply into your movies and games.

Convenient Overlaid On-Screen Display via HDMI

Changing your A/V receiver's settings is now more seamless than ever, thanks to Onkyo's overlaid On-Screen Display (OSD) feature. On-screen set-up menus appear overlaid on the video image you're watching. This means you can adjust the settings immediately, without having to switch back and forth from a blank screen background.

A Suite of Audyssey Technologies for the Ideal Listening Environment

The HT-S5400 comes equipped with three soundenhancing Audyssey technologies.

(1) Audyssey 2EQ® tailors multi-channel audio for your home theater speaker set-up by measuring three room positions and applying a resolution filter to the satellite speakers to correct for room acoustics.

(2) Audyssey Dynamic EQ® maintains a consistent bass response, tonal balance, and surround-sound effect at different volume levels. so you can enjoy the natural dynamics of your content regardless of

(3) Audyssey Dynamic Volume® automatically compensates for volume fluctuations in different audio content—for example, during commercial breaks—while optimizing the dynamic range.

Active Powered Subwoofer for More Powerful Bass Impact

Low-frequency effects (LFEs) play a vital role in the overall impact of your music, games, and movies. To take full advantage of their deep bass impact, the HT-S5400 employs an active powered subwoofer. This type of subwoofer draws an independent power supply that leaves the A/V receiver free to focus its power on the mid- and highfrequency sounds.

192 kHz/24-Bit TI Burr-Brown DACs Improve litter Performance to Deliver Clearer Sound

High-quality Burr-Brown DACs (PCM1690) work to optimize analog audio performance on the HT-S5400. These DACs perform advanced 24-bit signal processing and support sampling rates of up to 192 kHz, while displaying high resistance to clock jitter and offering a 113 dB dynamic range

Advanced Music Optimizer to Enhance Compressed Digital Music Files

While MP3 or AAC files may sound fine through the headphones of your portable digital player, the limitations of these files can be exposed when played back through a quality home entertainment system. This is because a significant amount of high-frequency bit information is lost during the file-compression process. To counter this, Onkyo has designed the Advanced Music Optimizer to compensate for lost bit information and improve the quality of compressed audio signals. This results in a clearer and more expansive sound. Also included in this technology is a loudness correction feature that further improves the audio character of compressed files.

SPECIFICATIONS

A/V RECEIVER

Am	ıρ	lific	er	Se	ect	ic
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Front L/R	160 W/Ch
	(6 Ω, I kHz, I channel driven, JEITA)
Center	160 W
	(6 Ω, I kHz, I channel driven, JEITA)
Surround L/R	160 W/Ch
	(6 Ω, I kHz, I channel driven, JEITA)
Surround Back L/R or Fi	ront High L/R
	160 W/Ch
	(6 Ω, I kHz, I channel driven, JEITA)
Dynamic Power	180 W (3 Ω, Front)
•	160 W (4 Ω, Front)
	100 W (8 Ω, Front)
HD+N (Total Harmonic	Distortion + Noise)
`	0.08% (20 Hz-20 kHz, Half power)
Damping Factor	60 (Front, I kHz, 8 Ω)
nput Sensitivity and Impe	dance
. , .	200 m\//47 kO (Line)

	200 IIIV/47 K22 (LINE)		
Rated RCA Output Lev	el and Impedance		
	200 mV/2.2 kΩ (Rec out)		
Maximum RCA Output Level and Impedance			
	2.0 V/2.2 kΩ (Rec out)		
Frequency Response	20 Hz–50 kHz/+1 dB, -3 dB (DSP bypass)		

Tone Control	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	100 dB (Line, IHF-A)
Casalian Impadance	6.0.16.0

Video Section

Tuner Section

Input Sensitivity/Output Level and Impedance				
Video	I.0 Vp-p/75 Ω (Component Y)			
	0.7 Vp-p/75 Ω (Component PB/CB, PR/CR)			
	I.0 Vp-p/75 Ω (Composite)			
Component Video Frequency Response				
5 Hz-100 MHz/0 dB, -3 dB				

Tuning Frequency Range	
FM	87.5 MHz-108 MHz
AM	522 kHz-1,611 kHz
	530 kHz-1,710 kHz
FM/AM Preset Memory	40 stations
General	
Power Supply	AC 220-240 V~, 50/60 Hz
Power Consumption	480 W

Dimensions (W x H x D) 435 x 150 x 328 mm

9.0 kg

Weight SPEAKER SYSTEM

Speaker Type	
Front	2-way, Bass reflex
Center	2-way, Bass reflex
Surround	Full-range, Acoustic suspension
Surround Back	Full-range, Acoustic suspension
Subwoofer	Bass reflex, Powered
Drivers	
Front	12 cm OMF diaphragm woofer
	2.5 cm balanced-dome tweeter
Center	8 cm cone woofer x 2
	2.5 cm balanced-dome tweeter
Surround	8 cm cone
Surround Back	8 cm cone
Subwoofer	25 cm cone
Frequency Response	
Front	55 Hz-50 kHz
Center	65 Hz-50 kHz
Surround	80 Hz-20 kHz
Surround Back	80 Hz-20 kHz
Subwoofer	25 Hz-150 Hz
Output Sound Pressure	Level
Front	85 dB/W/m
Center	86 dB/W/m
Surround	81 dB/W/m
Surround Back	81 dB/W/m
Max. Input Power	

Front/Center/Surround/Surround Back

Rated Output Power		
Subwoofer	120 W (IEC)	
Nominal Impedance		
ront/Center/Surround	/Surround Back	
	6 Ω	

Input Sensitivity/Impedance

Subwoofer	550	mV/20 k Ω

Dimensions (W x H x D))
Front	155 x 375.5 x 170 m
Center	420 x 115 x 121 mm
Cumound	115 v 230 v 94 mm

Dimensions (W x H x D) 772 x 768 x 477 mm

Surround Back	115 x 230 x 96 mm
Subwoofer	317.5 × 463 × 398 n
Veight	
Front	2.7 kg
Center	2.4 kg

CARTON	
Subwoofer	10.8 kg
Surround Back	I.0 kg
Surround	1.0 kg
Center	2.4 Kg

34.0 kg

- **Supplied Accessories**
- Indoor FM antenna AM loop antenna Color-coded speaker cable Subwoofer cable Speaker set-up microphone Instruction manual Quick set-up guide Remote controller AA (R6) batteries* x 2

HT-R590









Rear view

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